

APPLICATION

FOR UNITED STATES LETTERS PATENT

SPECIFICATION

TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN THAT I, **Vance Wiertzema**, a citizen of the United States, have
invented a new and useful motorcycle backrest system of which the following is a
specification:

1
2
3 **Motorcycle Backrest System**
4
5

6 **CROSS REFERENCE TO RELATED APPLICATIONS**
7

8 Not applicable to this application.
9
10
11

12 **STATEMENT REGARDING FEDERALLY**
13 **SPONSORED RESEARCH OR DEVELOPMENT**
14

15 Not applicable to this application.
16
17

18 **BACKGROUND OF THE INVENTION**
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20
21

22 **Field of the Invention**
23

24 The present invention relates generally to motorcycle seats and backrests and more
25 specifically it relates to a motorcycle backrest system for providing a removable backrest
26 for a motorcycle.
27
28

1 **Description of the Related Art**

2
3 Motorcycle backrests have been in use for years. The backrest extends
4 upwardly from the base portion of the seat and allows the rider of the motorcycle to
5 lean rewardly against to increase their comfort while riding the motorcycle.

6
7 A problem with conventional motorcycle backrests is that they are permanently
8 attached to the motorcycle. A problem with conventional motorcycle seats is that they
9 often times do not include a backrest and require the purchase of a completely new seat
10 with an integral backrest.

11
12 While these devices may be suitable for the particular purpose to which they
13 address, they are not as suitable for providing a removable backrest for a motorcycle.
14 Conventional motorcycles either do not have removable driver backrests or they
15 require the purchase of a new seat to have a drive backrest.

16
17 In these respects, the motorcycle backrest system according to the present
18 invention substantially departs from the conventional concepts and designs of the prior
19 art, and in so doing provides an apparatus primarily developed for the purpose of
20 providing a removable backrest for a motorcycle.

1
2 **BRIEF SUMMARY OF THE INVENTION**
3

4 In view of the foregoing disadvantages inherent in the known types of backrests
5 now present in the prior art, the present invention provides a new motorcycle backrest
6 system construction wherein the same can be utilized for providing a removable
7 backrest for a motorcycle.
8

9 The general purpose of the present invention, which will be described
10 subsequently in greater detail, is to provide a new motorcycle backrest system that has
11 many of the advantages of the backrests mentioned heretofore and many novel features
12 that result in a new motorcycle backrest system which is not anticipated, rendered
13 obvious, suggested, or even implied by any of the prior art backrests, either alone or in
14 any combination thereof.
15

16 To attain this, the present invention generally comprises a backrest, a pair of
17 front legs extending downwardly from the backrest, a pair of receiver members
18 attachable to a motorcycle for receiving the lower ends of the front legs and a pair of
19 rear legs extending from the front legs at an angle. Each of the rear legs includes an
20 engaging end formed to catchably receive a corresponding pair of spacer members
21 attached to the motorcycle.
22

23 There has thus been outlined, rather broadly, the more important features of the
24 invention in order that the detailed description thereof may be better understood, and
25 in order that the present contribution to the art may be better appreciated. There are
26 additional features of the invention that will be described hereinafter and that will form
27 the subject matter of the claims appended hereto.
28

29 In this respect, before explaining at least one embodiment of the invention in

1 detail, it is to be understood that the invention is not limited in its application to the
2 details of construction and to the arrangements of the components set forth in the
3 following description or illustrated in the drawings. The invention is capable of other
4 embodiments and of being practiced and carried out in various ways. Also, it is to be
5 understood that the phraseology and terminology employed herein are for the purpose
6 of the description and should not be regarded as limiting.

7
8 A primary object of the present invention is to provide a motorcycle backrest
9 system that will overcome the shortcomings of the prior art devices.

10
11 A second object is to provide a motorcycle backrest system for providing a
12 removable backrest for a motorcycle.

13
14 Another object is to provide a motorcycle backrest system that may be
15 efficiently attached and removed from a motorcycle.

16
17 An additional object is to provide a motorcycle backrest system that may be
18 utilized upon various brands and models of motorcycles.

19
20 A further object is to provide a motorcycle backrest system that provides a
21 removable driver backrest.

22
23 Another object is to provide a motorcycle backrest system that eliminates the
24 need to purchase a new seat to have a driver backrest.

25
26 Other objects and advantages of the present invention will become obvious to the
27 reader and it is intended that these objects and advantages are within the scope of the
28 present invention.

1 To the accomplishment of the above and related objects, this invention may be
2 embodied in the form illustrated in the accompanying drawings, attention being called
3 to the fact, however, that the drawings are illustrative only, and that changes may be
4 made in the specific construction illustrated and described within the scope of the
5 appended claims.

1
2 **BRIEF DESCRIPTION OF THE DRAWINGS**
3

4 Various other objects, features and attendant advantages of the present
5 invention will become fully appreciated as the same becomes better understood when
6 considered in conjunction with the accompanying drawings, in which like reference
7 characters designate the same or similar parts throughout the several views, and
8 wherein:
9

10 FIG. 1 is an upper perspective view of the present invention.
11

12 FIG. 2 is a front view of the present invention.
13

14 FIG. 3 is a rear view of the present invention.
15

16 FIG. 4 is an exploded rear view of the present invention.
17

18 FIG. 5 is a top view of the present invention.
19

20 FIG. 6 is a side view of the present invention.
21

22 FIG. 7 is an exploded side view of the present invention with respect to a
23 motorcycle.
24

25 FIG. 8 is a side view of the present invention attached to a motorcycle.
26

27 FIG. 9 is a rear view of the present invention attached to the motorcycle.
28

1 FIG. 10 is a magnified upper perspective view of the present invention attached
2 to a motorcycle.

3

4 FIG. 11 is a magnified exploded upper perspective view of the rear leg with
5 respect to the spacer member.

DETAILED DESCRIPTION OF THE INVENTION

A. Overview

Turning now descriptively to the drawings, in which similar reference characters denote similar elements throughout the several views, FIGS. 1 through 11 illustrate a motorcycle backrest system 10, which comprises a backrest 20, a pair of front legs 30 extending downwardly from the backrest 20, a pair of receiver members 50 attachable to a motorcycle 12 for receiving the lower ends of the front legs 30 and a pair of rear legs 40 extending from the front legs 30 at an angle. Each of the rear legs 40 includes an engaging end formed to catchably receive a corresponding pair of spacer members 14 attached to the motorcycle 12.

B. Backrest

An exemplary backrest 20 is illustrated in Figures 1 through 6 of the drawings. The backrest 20 may have various other shapes, styles and sizes as can be appreciated by one skilled in the art. For example, the backrest 20 may be padded or non-padded. The backrest 20 may be comprised of various materials such as but not limited to leather, vinyl, cloth and the like.

C. Frame

The frame is attached to and supporting the backrest 20 as shown in Figures 1 through 6 of the drawings. The frame is removably attachable to the motorcycle 12 in order to position the backrest 20 in a desired location to support the driver of the motorcycle 12.

The frame preferably includes a pair of front legs 30 extending downwardly as best shown in Figures 1 through 4. The frame also preferably includes a pair of rear

1 legs 40 extending downwardly and rearwardly at an acute angle with respect to the
2 front legs 30 as further shown in Figures 1 through 4 of the drawings.

3
4 The rear legs 40 are preferably substantially parallel to one another as best
5 illustrated in Figures 3 and 5 of the drawings. The rear legs 40 preferably extend from
6 the front legs 30 as best shown in Figures 3 and 6 of the drawings.

7
8 As shown in Figures 2, 3, 4 and 9 of the drawings, the front legs 30 preferably
9 extend outwardly to accommodate the width of the shock assembly 16 for each side of
10 the motorcycle 12. The front legs 30 also each preferably include a lower portion 32
11 that extends substantially downwardly. The lower portions 32 of the front legs 30 are
12 preferably substantially parallel to one another as shown in Figures 2 through 4 of the
13 drawings.

14
15 Each of the rear legs 40 includes an engaging end formed to catchably receive a
16 corresponding pair of spacer members 14 attached to a motorcycle 12 as best shown in
17 Figures 10 and 11 of the drawings. The engaging end is preferably comprised of a
18 curved structure with an opening for receiving a spacer member 14 as further shown in
19 Figures 10 and 11 of the drawings.

20 21 ***D. Receiver Member and Spacer Members***

22 The pair of receiver members 50 are attachable to a motorcycle 12 as best
23 shown in Figures 9 and 10 of the drawings. The receiver members 50 are preferably
24 attachable to the upper end of each shock assembly 16 as shown in Figures 9 and 10 of the
25 drawings. However, the receiver members 50 may be attached to other portions of the
26 motorcycle 12 with minor modifications.

27
28 The receiver members 50 are preferably comprised of a tubular structure with
29 an upper opening for removably receiving the lower ends of the front legs 30. It can be

1 appreciated that the lower ends of the front legs 30 may have a tubular structure for
2 slidably receiving the receiver members 50 alternatively.

3
4 The receiver members 50 each have an extended portion 52 with an aperture 54
5 as best illustrated in Figure 6 of the drawings. The aperture 54 receives an upper
6 threaded fastener of a shock assembly 16 as best illustrated in Figure 10 of the
7 drawings. In addition, the extended portion 52 is preferably angled to extend into an
8 interior tubular portion of a shock assembly 16 as shown in Figure 10 of the drawings.

9
10 The spacer members 14 are typically attached to a motorcycle 12 for supporting
11 saddle bags and similar structures. The spacer members 14 are typically attached on
12 opposing sides of the frame of the motorcycle 12 as shown in Figures 7 through 10 of
13 the drawings. The spacer members 14 are comprised of a cylindrical structure with a
14 circular outer cross sectional shape. If the motorcycle 12 does not have the spacer
15 members 14 preinstalled, the user simply has to install the spacer members 14 upon the
16 motorcycle 12 utilizing conventional fasteners.

17
18 ***E. Operation of Invention***

19 In use, the user removes a fastener nut from an upper end of each shock
20 assembly 16. The user then positions the aperture 54 of the receiver members 50 upon
21 each of the threaded fasteners securing the upper end of the respective shock assembly
22 16. The user then secures each fastener nut upon the receiver members 50 with the
23 receiver members 50 in a substantially vertical position.

24
25 The user then positions the lower end of the front legs 30 into the receiver
26 members 50. After the front legs 30 are securely positioned within the receiver
27 members 50, the user then tilts the present invention rearwardly until the engaging
28 ends 42 of the rear legs 40 are positioned about the spacer members 14 as shown in
29 Figure 10 of the drawings. When the rider of the motorcycle 12 leans rearwardly

1 against the backrest **20**, the rear legs **40** prevent the pivoting of the frame or the
2 backrest **20**. When the user is finished operating the motorcycle **12** and/or wants to
3 remove the backrest **20**, they simply rotate the present invention forwardly and then lift
4 upwardly to remove the front legs **30** from the receiver members **50**.

5
6 What has been described and illustrated herein is a preferred embodiment of the
7 invention along with some of its variations. The terms, descriptions and figures used
8 herein are set forth by way of illustration only and are not meant as limitations. Those
9 skilled in the art will recognize that many variations are possible within the spirit and
10 scope of the invention, which is intended to be defined by the following claims (and
11 their equivalents) in which all terms are meant in their broadest reasonable sense
12 unless otherwise indicated. Any headings utilized within the description are for
13 convenience only and have no legal or limiting effect.